

Notice of Allowability

Application No.

10/052,718

Examiner

Paul A. Baker

Applicant(s)

SHETTY ET AL.

Art Unit

2188

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to after final ammendment filed 08 November 2005.
2. ☒ The allowed claim(s) is/are 2-7,10-15,17-22,24-60,62-64,66-68 and 71.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☐ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other _____

DETAILED ACTION

Allowable Subject Matter

Claims 2-7,10-15,17-22, 24-60,62-64,66-68 and 71 allowed.

The following is an examiner's statement of reasons for allowance:

In regards to claim 7, none of the prior art of record discloses a hash and a cache in the method described wherein the cache contains the least recently used unique keys stored within the composite structure.

In regards to claim 10, none of the prior art of record discloses a hash and cache in the method described wherein the entry in the last location in a hash bucket to the cache.

In regards to claim 17, none of the prior art of record discloses a hash and cache in the method described wherein the entry in the last location in a hash bucket to the cache.

In regards to claim 20, none of the prior art of record discloses aging a cache wherein each entry has a timestamp, deleting an entry based on the timestamp's value, and each timestamp is incremented every second.

In regards to claim 24, none of the prior art of record discloses identifying the subscriber associated with a particular packet via one of the data cards if identification of the subscriber by the line card fails in combination with the other specified claim limitations.

In regards to claim 25, none of the prior art of record discloses generating a search key unique to a subscriber and simultaneously searching a first memory

containing most recently used keys and a second memory containing least recently used keys for a matching key in combination with the other specified claim limitations.

In regards to claims 64 and 68, none of the prior art of record discloses a hash and cache in the method described wherein the cache contains least recently used keys.

In regards to claim 71, none of the prior art of record discloses a hash in the method described wherein an entry from a last location in a hash bucket is moved to a cache.

Claims 2-6,11-15,18-19,21-22,26-37,62-63 and 66-67 are allowed as being dependent upon allowed claims.

The reasons for allowance for the remaining claims have been provided in previous office actions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A. Baker whose telephone number is (571)272-4203. The examiner can normally be reached on M-F 10am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (571)272-4210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PB

Mano Padmanabhan
12/8/05

**MANO PADMANABHAN
SUPERVISORY PATENT EXAMINER**